SuperServer 1029UX-LL2-S16 (Complete System Only)

Integrated Board

X11DPU-XLL

☐ **Qualified low latency NICs here**

☐ **World Record Performance White Paper**

☐ **STAC® report here**

☐ **RedHat® OpenShift Collaboration here**

Key Features

☐ **Financial Analysis**
☐ **Business Critical Applications**
☐ **Enterprise Server**

1. Dual Socket P (LGA 3647) support
   (Intel® Xeon® Gold 6146 included)

2. Up to 2TB 3DS ECC LRDIMM, up to
   DDR4-2666MHz; 16 DIMM slots
   (12x 16GB DDR4-2666MHz included)

3. 2 PCI-E 3.0 x16 slots (FH, 10.5"/10" L),
   1 PCI-E 3.0 x8 (LP), 1 PCI-E 3.0 x8
   (internal SAS3 integrated 3108)

4. 4 Gigabit Ethernet ports

5. 8 Hot-swap 2.5" SAS3 drive Bays;
   2 Hot-swap NVMe bays

6. 8 heavy duty fans w/ optimal
   fan speed control

7. 750W Redundant Power Supplies
   Platinum Level (94%+)

Complete System Only: To maintain quality and integrity, this product is sold only as a completely-assembled system (including but not limited to CPU, memory, and SSD). At least one low-latency NIC from this list must be selected and installed into the system.

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Specifications

Product SKUs

SYS-1029UX-LL2-S16
- SuperServer 1029UX-LL2-S16 (**Black**)

Motherboard

Super X11DPU-XLL

Processor/Cache

CPU	- Dual Socket P (LGA 3647) - Intel® Xeon® Gold 6146 included
Cores	- Up to 12 Cores

System Memory

Memory Capacity	- 16 DIMM slots - Up to 2TB 3DS ECC L/RDIMM, up to DDR4-2666MHz - 12x 16GB DDR4-2666MHz included
Memory Type	- 2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

On-Board Devices

Chipset	- Intel® C621 chipset
SATA	- SATA3 (disabled)
SAS	- Broadcom 3108 controller for 8 SAS3 ports
Network Connectivity	- 4 Gigabit Ethernet ports via AOC-UR-i4G (Intel® i350AM4)
IPMI	- Support for Intelligent Platform Management Interface v.2.0 - IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	- ASPEED AST2500 BMC

Input / Output

SAS	- 8 SAS3 ports support via integrated 3108 Add-on Card
LAN	- 4 RJ45 Gigabit Ethernet ports - 1 RJ45 Dedicated IPMI LAN port
USB	- 5 USB 3.0 ports (2 rear, 2 via header, 1 Type A)
Video	- 1 VGA port
Serial Port	- 1 COM Port (1 rear)

System BIOS

BIOS Type	- AMI UEFI

Management

Chassis

Form Factor	- 1U Rackmount
Model	- **CSE-119UTS-R751P-T**

Dimensions and Weight

Height	- 1.7" (43mm)
Width	- 17.2" (437mm)
Depth	- 28.5" (724mm)
Weight	- Gross Weight: 48 lbs (21.77 kg)
Available Color	- Black

Front Panel

Buttons	- Power On/Off button - System Reset button
LEDs	- Power LED - Hard drive activity LED - Network activity LEDs - System Overheat LED / Fan fail LED / UID LED

Expansion Slots

PCI-Express	- 2 PCI-E 3.0 x16 (1 Full-height, 10.5" L; 1 Full-height, 10") - 1 PCI-E 3.0 x8 (Low Profile) - 1 PCI-E 3.0 x8 (Internal SAS3 integrated 3108) **(See manual block diagram and AOC Support for details.)**

Drive Bays

Hot-swap	- 8 Hot-swap 2.5" SAS3 drive bays - 2 Hot-swap 2.5" NVMe

System Cooling

Fans	- 8 heavy duty fans with optimal fan speed control

Power Supply

750W Redundant AC-DC Power Supplies, +12V/+12Vsb output

AC Input	- 100-127Vac, 50-60Hz - 200-240Vac, 50-60Hz
+12V	- Max: 62.5A & Min: 0A (100Vac-127Vac) - Max: 62.5A & Min: 0A (200Vac-240Vac)
12V SB	- Max: 2.1A - Min: 0A
Certification	Platinum Level [Test Report]

Software	• IPMI 2.0
	• KVM with dedicated LAN
	• NMI
	• SSM, SPM, SUM
	• SuperDoctor® 5
	• Watchdog

CPU	• Monitors for CPU Cores, Chipset Voltages, Memory.
	• 4+1 Phase-switching voltage regulator
FAN	• Fans with tachometer monitoring
	• Status monitor for speed control
	• Pulse Width Modulated (PWM) fan connectors
Temperature	• Monitoring for CPU and chassis environment
	• Thermal Control for fan connectors

RoHS	• RoHS Compliant
Environmental Spec.	• Operating Temperature:
	10°C ~ 35°C (50°F ~ 95°F)
	• Non-operating Temperature:
	-40°C to 60°C (-40°F to 140°F)
	• Operating Relative Humidity:
	8% to 90% (non-condensing)
	• Non-operating Relative Humidity:
	5% to 95% (non-condensing)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DPU-XLL	1	Super X11DPU-XLL Motherboard
	CSE-119UTS-R751P-T	1	CSE-119UTS-R751P-T Chassis
FAN	FAN-0101L4	8	40x56,4 Pin PWM,Primary for SC809,111, Sec.for SC816,819,808
Power Supply	PWS-751P-1R	2	1U 750W Redundant Platinum Single Output Power Supply w/Pmbus W73.5xH40xL203mm,RoHS/REACH
CPU	P4X-LL26146	2	LL2 Only, SKL 6146 12C/24T 3.2G 24.75M 10.4GT 165W
Memory	MEM-DR416L-SL02-ER26	12	16GB DDR4-2666 1Rx4 LP ECC REG DIMM
Storage Control Card	AOC-S3108L-H8iR	1	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)

Optional Parts List

	Part Number	Qty	Description
CacheVault(s)	BTR-CV3108-1U1	-	CacheVault for Broadcom 3108 with Supercap mounting in 1U 40x56 fan tray
	BTR-TFM8G-LSICVM02 & BKT-BBU-BRACKET-05	-	CacheVault for Broadcom 3108; Supercap mounting bracket for PCI-E location
	BTR-TFM8G-LSICVM02 & MCP-240-00127-0N	-	CacheVault for Broadcom 3108; Supercap mounting bracket for 2.5" HDD location
1U Cable Management Arm	MCP-290-00152-0N	1	1U Supermicro Cable Management Arm 2nd Gen
Global Services & Support	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)